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**CAMERON STATION, ALEXANDRIA, VIRGINIA**



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STEP

AUTHOR:

Mindyuk, A. K., Junior scientific worker

TITLE:

Efficient heat treatment conditions for glass screens of metal-glass envelopes of cathode-ray-tubes (CRT's)

PERIODICAL: Steklo i keramika, no. 9, 1962, 19 - 20

TEXT: The state of stress in glass-to-metal seals of CRT's having circular glass screens for the 40LK15 (40LK1B) type tubes was investigated and effective conditions of heat treatment for glass-to-metal seals were sought. The strength of CRT seals was shown to depend neither on the composition of the material nor on alterations of the thermal expansion coefficient for metal or glass. The required strength can be achieved by proper selection of the tempering temperature and by uniform cooling of the glass. Symmetric semi-tempering at 510°C was found to be the optimum condition to obtain adequate strength both for the manufacturing process and for the finished product. There are 4 figures.

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